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# Washington University Record, February 19, 2009

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# Record



Washington University in St. Louis

Feb. 19, 2009

record.wustl.edu

## Personalized breast cancer treatment now possible

By GWEN ERICSON

A set of 50 genes can be used to reliably identify the four known types of breast cancer, according to research conducted at the School of Medicine and at collaborating institutions.

Using this 50-gene set, oncologists can potentially predict the most effective therapy for each breast tumor type and thereby personalize breast cancer treatment for all patients.

"Unlike a widely used genomic test that applies only to lymph-node negative, estrogen-receptor positive breast cancer, this new genomic test is broadly applicable for all women diagnosed with breast cancer," said breast cancer specialist Matthew Ellis, M.D., Ph.D., professor of medicine in the Division of Medical Oncology.

The study was reported Feb. 9 through advance online publication in the Journal of

Clinical Oncology. Ellis' collaborators include co-authors Charles Perou, Ph.D., associate professor of genetics and pathology at the University of North Carolina at Chapel Hill School of Medicine; Philip S. Bernard, M.D., assistant professor of pathology and medical director of the molecular pathology laboratory at the University of Utah Huntsman Cancer Institute; and Torsten Nielsen, M.D., Ph.D., assistant professor of pathology and laboratory medicine at the University of British Columbia.

Breast cancer results from genetic abnormalities in breast tissue, but not all breast cancers have identical genetic alterations. Ellis and his colleagues analyzed the gene activity of more than 1,000 breast tumors to identify and validate the genetic signature of each of the four types of breast cancer. Although the cancer types are distinguished by thousands of genetic differences, the researchers were able to narrow the list

down to a set of 50 of these genes that could uniquely identify each type.

These tumor types have been previously defined and are known as luminal A, luminal B, HER2-enriched and basal-like. The latter three types are generally considered types with a poor prognosis. Another genomic test commonly used in clinical practice, OncotypeDX, does not identify all four tumor types.

"Our test is the first to incorporate a molecular profile for the basal-like type breast cancers," said Ellis, a member of the Siteman Cancer Center. "That's important because these breast cancers are arguably the most aggressive yet the most sensitive to chemotherapy. By identifying them, we can ensure they are treated adequately."

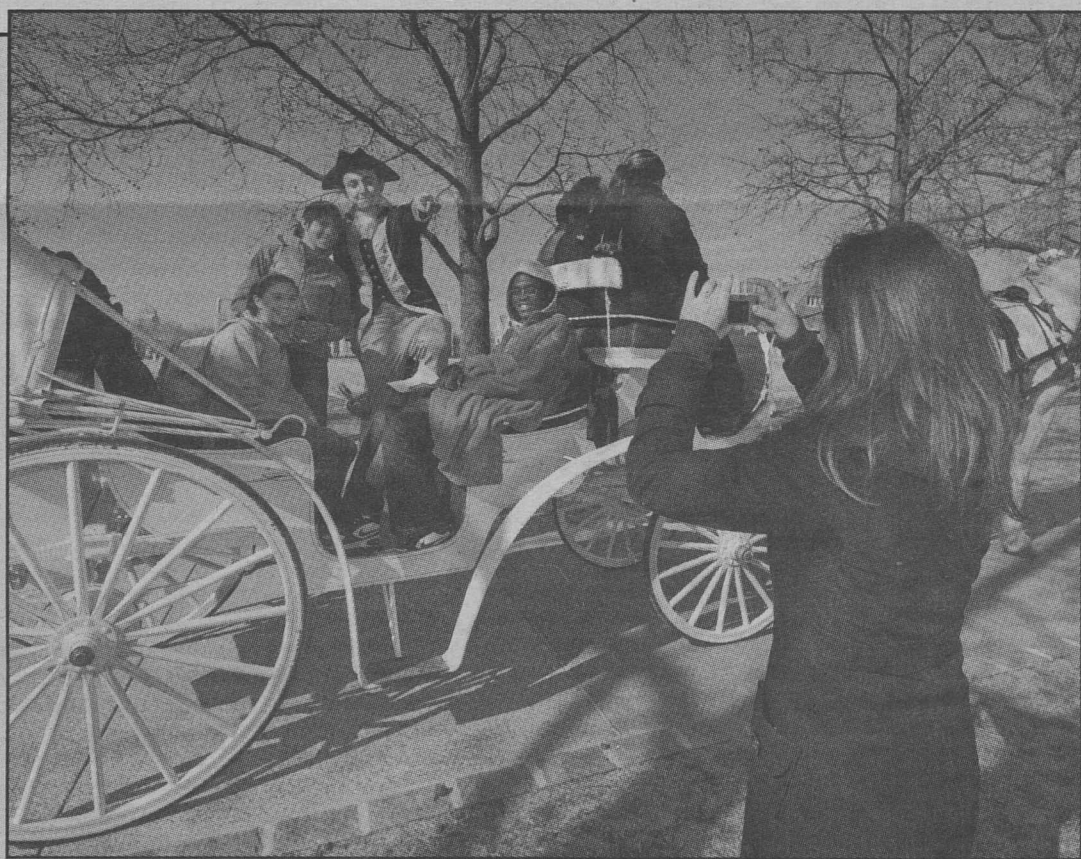
Breast cancer experts typically also identify a fifth breast cancer type known as normal-like. The 50-gene set also recognizes the normal-like type. But the researchers

found that instead of being a fifth type of breast cancer, the normal-like classification is an indicator that a sample contains insufficient tumor cells to make a molecular diagnosis and that a new sample needs to be taken.

In this study, the researchers also compared the activity of the 50-gene set to how well 133 breast cancer patients responded to standard chemotherapy. They found that their genetic test was highly sensitive and very predictive for chemotherapy response. The test was more predictive than typically used clinical molecular markers such as estrogen receptor status, progesterone receptor status or HER2 gene expression status.

They found that luminal A was not sensitive to the chemotherapy, suggesting that patients with this good-prognosis type can forgo chemotherapy in favor of hormone-

See Treatment, Page 6



**Presidential photo op** George Washington, portrayed by sophomore Nate Maslak, poses with freshman Annie Racine (left), her sister Lisa and sophomore Roger Murayi while Leslie Shuets takes their picture on Presidents Day Feb. 16. Horse and buggy rides with George were offered throughout the Danforth Campus that day. Other Washington Week activities include the celebration of Washington's 277th birthday from noon-3 p.m. Thursday, Feb. 19, in the Danforth University Center and free tricorne hats to WUSTL students at the men's and women's home basketball games Friday, Feb. 20. The week is sponsored by the sophomore honorary Lock & Chain.

## Biologist presents 'sacred' nature of sustainability

By RACHEL SHULMAN

Global warming and environmental sustainability are concerns that fit neatly within the precepts of religious naturalism, according to Ursula Goodenough, Ph.D., professor of biology in Arts & Sciences.

Goodenough, a renowned cell biologist, is the author of "The Sacred Depths of Nature," a best-selling book on religious naturalism that was published in 1998.

Religious naturalism neither requires belief in God nor excludes faith. Rather, the movement is based on what Goodenough described as "an exploration of the religious potential of nature."

Goodenough spoke on this topic at the annual American Association for the Advancement of Science (AAAS) meeting Feb. 14 in Chicago. Her symposium was titled "Toward the Science and Ethics of a Culture of Sustainability."

Like all religious traditions, religious naturalism is anchored in a cosmological narrative, a set of

stories accounting how the earth and its inhabitants came to be.

While conventional religions generally are based on older cosmological narratives such as those found in the Old and New Testaments, religious naturalism is based on a much more recent narrative.

"During the past 100 years or so, we have been provisioned with a new story that tells us about the universe," Goodenough said, referring to groundbreaking advancements in science that help explain the "Big Bang," the origin and nature of biological life, consciousness and the mind and humanity's interconnectedness with nature.

"It's a pretty big story," Goodenough said. "It's not ever going to be something written down on some tablet or a one-size-fits-all kind of thing. It's understanding nature."

Goodenough said cosmological narratives serve as a basis for three kinds of activities that are at the core of all religious traditions, including religious naturalism.

See Sacred, Page 6

## Steinberg Hall to be rededicated with celebration

By CYNTHIA GEORGES

The Steinberg Hall of Art and Archaeology, a gift from Etta Eiseman Steinberg in memory of her husband, Mark C. Steinberg, formally opened its doors May 15, 1960, with a gala reception that celebrated the University as a center of arts education.

Having undergone a renovation that completes the new facilities uniting the Sam Fox School of Design & Visual Arts, Steinberg Hall once again will take the spotlight at a rededication celebration Monday, Feb. 23.

The event, sponsored by the Sam Fox School and the Department of Art History & Archaeology in Arts & Sciences, will take place at 4 p.m. in Steinberg

Auditorium, which will be renamed for philanthropist and visionary Etta Steinberg, who died in 1974.

World-renowned contemporary artist Fred Tomaselli, whose dazzling paintings interweave images from medical texts, catalogues, field guides, flora and fauna, will discuss his work as part of the program.

Joining Tomaselli will be WUSTL alumnus James Cohan, owner of the James Cohan Gallery in New York and Shanghai. Tomaselli and Cohan will discuss the collaborative relationship between artist and gallery owner.

Mark C. Steinberg's career took him from office boy in the St. Louis brokerage firm of Altheimer & Rawlings to founder

of Mark C. Steinberg & Co., a brokerage firm he headed until his death in 1951.

The daughter of Aurelia Stix and David Eiseman, an owner and president of Rice-Stix Dry Goods Co. in St. Louis, Etta Steinberg was an inspirational visionary. Her devotion to St. Louis and WUSTL enriched many lives through the educational, recreational and health-care-related projects she so ardently supported.

Through the Mark C. Steinberg Charitable Trust and personal gifts, Etta Steinberg funded the Mark C. Steinberg Memorial Skating Rink in Forest Park (1957), the Mark C. Steinberg Professorship in Art History at WUSTL (1963) and the Mark C. Steinberg

See Steinberg, Page 2



In a photo from the 1960-61 academic year, Etta Eiseman Steinberg (left) and daughter Florence Steinberg Weil attend the opening of an exhibition of works by Alexander Calder in Steinberg Hall.

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# Primates evolved to be social, not aggressive, Sussman tells AAAS

By NEIL SCHOENHERR

**P**rimates are social animals. But why did they become social, and what are the causes for the differences in social structure among various primate species?

Robert W. Sussman, Ph.D., professor of anthropology in Arts & Sciences, addressed those questions and more in his talk, "A Comparative Overview of Primate Social Organization," during the 2009 annual meeting of the American Association for the Advancement of Science (AAAS) Feb. 15 in Chicago.

A commonly held view is that primates are social because it protects them from predation or from infanticide within the species. Because of these pressures, they are forced to be social, but, due to competition for food resources, they must be competitive and aggressive as well.

"Many theories about the evolution of primate sociality and social behavior are related to this negative idea that primates must be aggressive because they are forced to be social," Sussman said. "The evidence, however, does not support this theory."

Sussman has found through his examination of primates that while the animals are very close as a group, active social interaction takes up a mere 5 percent to 10 percent of their average day.

"So 90 percent or more of primate behavior is maintenance behavior in a social context," Sussman said. "In examining what percentage of that social behavior is actually antagonistic, we find it's actually very little. In fact, in some species it can be as infrequent as

once every 175 days.

"Obviously a major aggressive incident in which an individual is injured or dies is a factor that affects that individual, but how that affects the evolution of a species is questionable," he said.

Another theory on the evolution of primate social behavior, the ecological constraints model, suggests that as group size increases, so do competition and fighting within the group. The theory purports a direct correlation between the number of animals in the group and the energy efficiency of those animals.

Sussman questions how this model can explain cooperative social behavior.

"Sociobiologists would explain it in three ways," he said. "The first is kin selection. Animals aren't really altruistic, they're just social so they can pass along their genes. The second is reciprocal altruism. Animals only help each other if they know they'll be helped in the future. The third is social reconciliation. Because animals are forced to compete, in order to live in social groups, they must also reconcile with each other."

In each of these views, Sussman said, the animal is forced to live socially. It's not a choice.

"That's a terrible way to think of the world," he said.

He proposes an alternative theory. "None of the concepts in the previous example are actually seen in nature," Sussman said. "There is more altruism and cooperation in humans and primates than there is any kind of aggression."

He said animals — and humans, for that matter

— benefit from being social. And if that's true, he argued, there should be evolutionary evidence to back it up. And there is.

"There are two areas of the primate and human brain that are stimulated when we cooperate. We've evolved to get pleasure from cooperation," he said.

The hormones serotonin and oxytocin also play a role in social recognition and trust.

Sussman agrees that predatory pressure is one of the reasons for group living to be evolutionarily advantageous.

But, he said, "through evolutionary time, certain animals who benefit more by living in groups

have developed — through natural selection — natural biological mechanisms that enhance sociality."

"Today, it is possible for animals to be social and even altruistic without the pressures of kin selection and others," Sussman said. "Cooperation is a biological mechanism."



**Olin abroad** WUSTL students debate the financial implications of Croatia's and Turkey's application to join the European Union and further enlargement of EU membership in a mock parliament exercise in Brussels, Belgium, Jan. 30. Three dozen BSBA students interviewed government officials and experts in 18 European cities to prepare for the exercise. This is the second year students have participated in the EU study tour as part of Olin's International Internship Program. "The tour is designed to teach the students about the EU by giving them the chance to conduct research in most of the EU countries and then using that information to debate in a mock parliament," said Nicholas S. Hugh, European programs director. "The research-driven thinking applied in debate is a good example of Olin's innovative approach to experiential learning and preparing students for the corporate world." The students also visited the European Investment Bank, Luxembourg Parliament and the European Parliament and Commission before fanning out across Europe for full-time internships in London, Paris, Madrid, and Koblenz, Germany.

## Steinberg

**Family has made 'lasting contributions'**  
— from Page 1

Memorial Hospital (1967), now a part of Barnes-Jewish Hospital. In recognition of her service, the University awarded Etta Steinberg the honorary degree of doctor of humanities in 1967.

"Together, the Steinbergs have made significant, lasting contributions to Washington University and to the city of St. Louis," Chancellor Mark S. Wrighton said. "Their gifts of important works of art helped to develop and shape the University's collection, and their remarkable generosity provided the endowed funds that strengthen University academic programs today."

"The rededication ceremony also will honor the exemplary leadership and contributions of Mark S. Weil, Ph.D., the E. Desmond Lee Professor Emeritus, Washington University alumnus and the grandson of Etta Steinberg," Wrighton said.

"Mark's brother, John D. Weil, has served as a trustee of Washington University since 2003. Their father, Richard K. Weil, served as a trustee from 1966-1974 and as emeritus trustee until his death in 1996. The legacy of these families continues to guide and inspire us," Wrighton said.

Steinberg Hall was designed by Fumihiko Maki, principal of Maki & Associates in Tokyo, considered to be among the world's premier architects. Steinberg Hall was Maki's first commissioned building, designed in the late 1950s during his tenure as an associate professor in the School of Architecture.

Upon its completion, Steinberg Hall housed the Washington University Gallery of Art, the Department of Art History & Archaeology, the Art and Architecture library, classrooms and an auditorium.

During the 2006-07 academic year, Steinberg Hall was renovated and outfitted with new art and architecture studios as well as a refurbished auditorium. In fall 2006, the Gallery of Art moved into the new Mildred Lane Kemper Art Museum, as did the Kenneth and Nancy Kranzberg Art & Architecture Library and the Department of Art History & Archaeology in Arts & Sciences, which was supported by major gifts made by Etta Steinberg.

Steinberg Hall is home to the College of Architecture, the Graduate School of Architecture & Urban Design and the College and Graduate School of Art. As one of five buildings that form the Sam Fox Arts Center, Steinberg Hall continues its early charter of serving as a collaborative center for art and design education. In addition, it houses a career center, cafe and exhibition space.

Mark C. and Etta Steinberg's daughter Florence and her husband, Richard K. Weil, significantly impacted the University's art collection through their gifts of works by postwar European art and modern American painters such as Sam Francis and Robert Rauschenberg.

The Weils' four children have continued their parents' legacy by serving the University in important ways. Mark S. Weil, who earned an undergraduate degree in art history and archaeology in 1961, has been associated with the University for more than 50 years. He joined the Department of Art History & Archaeology in 1968, and, since then, has taught generations of students, including James Cohan.

Mark Weil is an expert in Italian Renaissance and Baroque art and architecture, and art connoisseurship. He chaired the department for 10 years and served as director of both the Kemper Art Museum and the Sam Fox Arts Center before retiring as the E. Desmond Lee Professor for Collaboration in the Arts in 2005.

Mark Weil, Anabeth and John D. Weil, Josephine and Richard K. Weil Jr., and Paula Weil also contributed to the Florence Steinberg Weil Sculpture Plaza, located to the north of Steinberg Hall. Anabeth also chairs the Kemper Art Museum's membership advisory committee.

"The Steinbergs were passionate and generous supporters of the arts and the University. We

are all grateful for the families' continued generosity and active involvement with the school," said Carmon Colangelo, dean of the Sam Fox School of Design & Visual Arts and the E. Desmond Lee Professor for Collaboration in the Arts.

"Steinberg Hall is a thriving environment for the study of the visual arts, architecture, art history and archaeology. Having distinguished guests Fred Tomaselli and James Cohan honors the legacy of the Steinberg family and underscores the school's mission of interdisciplinary collaboration."

A fourth generation of the Steinberg family has continued the University connection. Lisa Heffernan Weil (Mark's daughter-

in-law) earned a bachelor's degree with honors in history in 1992, and Gabriel Weil (Richard and Josephine's son) is a sophomore in Arts & Sciences.

"The Steinberg-Weil family has played an important role in making St. Louis a vital and interesting community," said Chancellor Emeritus William H. Danforth.

"Washington University has especially benefited. It is my privilege to continue to know and work with the grandchildren of Mark and Etta Steinberg and their great spouses. We can all be grateful for this family," Danforth said.

A reception will follow at the Mildred Lane Kemper Art Museum. Please R.S.V.P. to Sylvia Stoll at 935-7382 or sylviastoll@wustl.edu.

## Tomaselli to speak at Steinberg rededication

**D**escribed by The New York Times as "contemporary art's most technically gifted purveyor of psychedelia," Fred Tomaselli frequented and drew inspiration from southern California's punk rock and performance art scene of the 1980s. His fantastical paintings, which often include allegorical figures, are created on wood and encased in high-gloss resin.

Tomaselli will discuss his art at the rededication of Steinberg Hall at 4 p.m. Monday, Feb. 23. Joining him will be WUSTL alumnus James Cohan, owner of the James Cohan Gallery in New York and Shanghai.

Of his work, Tomaselli said, "Painting has traditionally been seen as a window onto another reality, a kind of rectangular utopia of relief. I am interested in the relationship between this myth and the broader culture that contains it. ... My work aims to be escapist while simultaneously exploring the perceptual and cultural dynamics of escapism."

Tomaselli's art has been exhibited in solo gallery shows in Berlin (2005) and London (2004). His most recent solo museum exhibition, "Monsters of Paradise," originated at the Fruitmarket Gallery in

Edinburgh, Scotland, and traveled to three other European museums, concluding at the Rose Museum of Art at Brandeis University last September.

His paintings have been featured on the international biennial art circuit and are included in the collections of The Museum of Modern Art (New York), the Whitney Museum of American Art (New York), the Los Angeles County Museum of Art, the Museum of Contemporary Art (Los Angeles) and the Art Institute of Chicago, among others.

Tomaselli lives and works in Brooklyn, N.Y., and is represented by the James Cohan Gallery and the White Cube Gallery in London.

Cohan, who graduated from WUSTL in 1982 with a degree in art history and archaeology, has been active in the contemporary art world for more than 20 years as a curator, adviser, artist agent and art dealer.

His gallery represents leading contemporary artists and maintains a diverse exhibition program.

Tomaselli's presentation also is part of the Sam Fox School of Design & Visual Arts' spring lecture series.

— Cynthia Georges



## School of Medicine Update

### Looking to the future of women's health research

By CAROLINE ARBANAS

**W**hat are your priorities for women's health research? The National Institutes of Health (NIH) wants to know.

Washington University will host a national meeting March 4-6 on behalf of the NIH Office of Research in Women's Health as it begins to develop research priorities for the next decade. The meeting begins with a public hearing to gather input from scientists, health-care providers, patients, community groups, advocacy groups and other interested parties.

It is the first of several regional conferences to explore new avenues for research into diseases and issues that affect numerous women.

"This is a wonderful opportunity for researchers, clinicians and the public to make a significant impact on the direction and future of federally funded women's health research," said Samuel L. Stanley Jr., M.D., vice chancellor for research.

The meeting includes panel discussions and presentations on translating unmet medical needs into new research initiatives. Additionally, the conference brings together U.S. physicians, scientists and public policy officials who will work in small groups to develop specific recommendations and priorities in seven areas: chronic pain; bladder and pelvic floor disorders; brain and psychiatric disorders; infectious diseases of the urinary and reproductive tracts; obesity and eating disorders; genetics and microbial communities; and women in biomedical careers.

"We think the conference will

generate innovative ideas and energize new research on women's health, including the role of sex and gender in health and disease, and the unique ways in which women are affected by diseases that burden all people," said Scott Hultgren, Ph.D., director of the Center for Women's Infectious Disease Research, who has helped organize the meeting.

Keynote speakers for the event are Nancy Nielsen, M.D., Ph.D., president of the American Medical Association and senior associate dean for medical education at the State University of New York

at Buffalo School of Medicine and Biomedical Sciences, and Phoebe Leboy, Ph.D., president of the Association of Women in Science and professor emerita of biochemistry at the University of Pennsylvania.

To submit oral or written testimony at the public hearing, an online form detailing remarks must be completed by Feb. 20. The form can be found at [orwhmeetings.com/newdirections/testimony.aspx](http://orwhmeetings.com/newdirections/testimony.aspx).

The conference is free and open to the WUSTL community and the public, but registration is required. To register and find more information, visit [research.wustl.edu/womenshealth](http://research.wustl.edu/womenshealth).

The conference begins at 2 p.m. March 4 in the Eric P. Newman Education Center on the medical center campus with opening remarks and a panel discussion featuring Judy Norsigian, author and executive director of Our Bodies Ourselves, and Susan Scanlan, president of the policy group Women's Research and Education Institute. Public testimony will begin immediately afterward.



Hultgren



**Helping hands** Angela Buehner (center), a third-year doctoral student in the Program in Physical Therapy, and Cheryl Caldwell, assistant professor of physical therapy, create a splint to alleviate a patient's wrist pain while working in a clinic in Teupasente, Honduras, in January. Buehner and Caldwell were among a group of 40 students and faculty from Washington University who went to Honduras as part of the University's first trip with Global Medical Brigades, an international organization that provides communities in developing nations with sustainable health care. The trip was organized by WUSTL undergraduate pre-medicine students.

### Surgeon on volunteer mission treats wounded U.S. soldiers

By BETH MILLER

**W**hile two weeks away from the comforts of home may seem like a long time, Patrick Geraghty, M.D., realized that his two weeks in Germany treating wounded U.S. soldiers was nothing compared to the long tours of duty they face.

Geraghty, associate professor of surgery, went to Landstuhl Regional Medical Center (LRMC) at Ramstein Air Force Base in Germany Jan. 3-18 to lend his expertise as a vascular surgeon.

The Society for Vascular Surgery, of which Geraghty is a member, has coordinated volunteer vascular surgeons for two years to relieve the limited number of vascular surgeons in the military.

Soldiers serving in Iraq and Afghanistan have a high rate of injuries caused by improvised explosive devices or from high-velocity crashes. Although the soldiers wear body armor, it primarily protects their torso and abdomen, leaving arms and legs exposed, according to Geraghty.

"These soldiers have multiple extremity injuries, which can be very disabling," he said. "The injuries require the attention of several surgical specialties to

achieve a good outcome."

All significant injuries treated at the U.S. military hospitals in Iraq and Afghanistan are evacuated to LRMC for ongoing treatment and stabilization. Fortunately, casualty rates have fallen in recent months. Geraghty's team treated five or six new patients a week, a fairly low number, he said.



Geraghty

"During my two weeks at LRMC, I primarily assisted the general surgeons with nonvascular trauma care," he said. "It's a genuine privilege to be able to assist these soldiers in any way possible. The vascular surgery volunteer program at LRMC means that our particular expertise is always available to them during their transit back to the U.S."

Once back in the United States, the soldiers go to military hospitals for continued treatment and rehabilitation.

Geraghty recalled treating one patient who had severe trauma to his legs that required multiple surgical debridements, or removal

of damaged tissue. The patient already had undergone amputation of one arm and had sustained a traumatic brain injury.

"The acute care for these soldiers is excellent," he said. "The unanswered question is what happens in the longer term. Even after this conflict reaches a conclusion, our society needs to provide funding for ongoing care. These are very badly injured soldiers, with injuries sustained doing the job their country asked of them, who will need assistance to get through life."

The U.S. Department of Defense reports about 5,000 U.S. casualties from the wars in Iraq and Afghanistan to date, with an estimated 33,500 wounded.

Geraghty praised the response of the military physicians as well as the hospital's staff for their care of wounded soldiers and gained additional respect for military families.

"My two weeks there was a blip compared to the extended tours these guys serve," he said.

"My wife and kids got sick the day after I left, and I was frustrated at being unable to help out at home. It gave me a very brief window onto the challenges that separation places on soldiers and their families," he said.

### Training Center selects scholars

**T**he Clinical Research Training Center KL2 Career Development Awards Program has selected its new KL2 Scholars, who will begin July 1.

They are: Li-Shiun Chen, M.D., instructor, Department of Psychiatry; Andria Ford, M.D., instructor, Department of Neurology; Erin Foster, instructor, Program in Occupational Therapy; Jonas Marschall, M.D., clinical fellow, Department of Medicine, Division of Infectious Diseases; Peter Nagele, M.D., assistant professor of anesthesiology; and Shelby Sullivan, M.D., instructor, Department of Medicine, Division of Gastroenterology.

These awards provide high-quality, multidisciplinary training

in clinical and translational research to promote the career development of future clinical investigators.

The Clinical Research Training Center, a component of Washington University's Institute of Clinical and Translational Sciences, provides a cohesive and supportive infrastructure to foster clinical research training and career development for predoctoral students, house staff, postdoctoral fellows and faculty. Active mentoring, hands-on research experiences and formal didactic programs in clinical research methods leading to a certificate or master's degree in clinical investigation are core components of the program.

### Children's Discovery Institute awards new research grants

**T**he Children's Discovery Institute has awarded 15 new research grants, bringing the total investment in finding cures and treatments for devastating childhood diseases to more than \$11.5 million since 2006.

The new awards, which began Feb. 1, total just over \$4 million and were given to 15 researchers in seven departments at the School of Medicine and in the College of Arts & Sciences.

"Forward-thinking individual contributors interested in speeding the pace of discoveries in pediatric medicine made this possible," said Alan L. Schwartz, Ph.D., M.D., Children's Discovery Institute executive director and the Harriet B. Spoeher Professor and chair of the Department of Pediatrics. "Our institute investors

understand the risks and potential rewards of supporting high-risk research by young investigators. They have refused to allow progress to lapse even in these troubled financial times."

A special New Faculty Grant has been awarded to Audrey Odom, M.D., Ph.D., to assist with the establishment of her laboratory at the School of Medicine, where she is an instructor of pediatrics. Her investigation focuses on a new metabolic pathway in malaria that is not found in humans, and therefore provides a novel target for drug development. Odom is partnering with the Donald Danforth Plant Sciences Center in her research, which is being conducted for the Center for Musculoskeletal and Metabolic Disorders of the Children's Discovery Institute.

Among the recipients is Barbara Warner, M.D., associate professor of pediatrics, who will use the grant to create the St. Louis Neonatal Gut Microbiome Initiative. Warner and her colleagues will determine the nature and concentration of microbes in the gastrointestinal tracts of twin volunteers to understand the effect of human genes on bacterial content. Nguyet Nguyen, M.D., assistant professor of medicine, is studying the role of a specific receptor in lung development and lung injury to provide insights into approaches to modify lung injury during childhood.

Other grant recipients in this round of funding are Ana Maria Arbelaez, M.D., assistant professor of pediatrics; Yehuda Ben-Shahar, Ph.D., assistant professor of biology in Arts & Sciences; Roberta Faccio,

Ph.D., assistant professor of orthopedic surgery; Sanjay Jain, Ph.D., M.D., assistant professor of medicine; Scott Saunders, M.D., Ph.D., associate professor of pediatrics; Monita Wilson, Ph.D., research assistant professor of medicine; Joshua Rubin, M.D., Ph.D., assistant professor of pediatrics; Rob Mitra, Ph.D., assistant professor of genetics; David Wang, Ph.D., assistant professor of molecular microbiology; and Dong Yu, Ph.D., assistant professor of molecular microbiology.

The Children's Discovery Institute is also supporting the work of two postdoctoral fellows conducting research in the labs of institute members. They are Jeff Bednarski, M.D., Ph.D., clinical fellow in pediatrics, and Stephen Rogers, Ph.D., postdoctoral research associate in pediatrics.



# University Events

## Speaking frankly about race and identity in America

BY BARBARA REA

The inauguration of the first African-American president was a milestone in race relations, but, to most members of a minority, the judgment that the United States is now a post-racial society is quite premature.

At 4 p.m. Wednesday, Feb. 25, in the Danforth University Center (DUC), WUSTL students and faculty will gather for a conversation about race and identity.

The Assembly Series event is free and open to the public and will take place in the DUC's Fun Room.

Representatives from student groups will join Bob Hansman, associate professor of architecture and artist-in-residence in the Sam Fox School of Design & Visual Arts' College of Architecture, and Asad Ahmed, Ph.D., assistant professor of Arabic with a joint appointment in the Department of Asian & Near

Eastern Languages & Literatures and in the Jewish, Islamic and Near Eastern Studies Program, both in Arts & Sciences, in a frank discussion designed to move ideas of race and identity forward.

The student groups represented will be the Asian American Association, the Association of Black Students, Ashoka, Connect Four, the Association of Mixed Students and Pride Alliance.

The goal is to have meaningful dialogue that will produce real insight into the experiences that members of a minority — or people with nontraditional identities — have in the hope that it produces a genuine understanding.

Opportunities for audience participation will be welcomed as well.

For more information on this Assembly Series program or upcoming events, call 935-4620 or visit [assemblyseries.wustl.edu](http://assemblyseries.wustl.edu).



A frank and open discussion about race — the next Assembly Series event Feb. 25 — is a program whose concept was, in part, generated by the inauguration of President Barack Obama. As part of the project, the Assembly Series brought to campus the Human Race Machine, which was set up at the Danforth University Center for a few days last month. Junior Stephanie Chalifour learned what she would look like with different racial attributes.

## Brown Clouds • Imprinted Polymers • Big Tobacco

"University Events" lists a portion of the activities taking place Feb. 19-March 4 at Washington University. Visit the Web for expanded calendars for the Danforth Campus ([news-info.wustl.edu/calendars](http://news-info.wustl.edu/calendars)) and the School of Medicine ([medschool.wustl.edu/calendars.html](http://medschool.wustl.edu/calendars.html)).

### Exhibits

**"Eero Saarinen: Shaping the Future."** Through April 27. Mildred Lane Kemper Art Museum. 935-4523.

**"On the Riverfront: St. Louis and the Gateway Arch."** Through March 9. Steinberg Hall Architecture Gallery. 935-4523.

**"Paris — From the Commune of 1871 to the Exposition of 1900: Images from the Russell Sturgis Photograph Collection."** Through March 30. Olin Library, Lvl. 1, Ginkgo Rm. 935-9730.

### Lectures

#### Thursday, Feb. 19

**8 a.m.-5 p.m. School of Medicine Annual Guze Symposium on Alcoholism.** "Translating Basic Science Findings to Guide Prevention Efforts Across the Lifespan." Cost: \$100; free for WUSTL faculty, staff, postdocs and students. Eric P. Newman Education Center. 286-2244.

**Noon. Genetics Seminar.** "Genetic Protection from Diseases of Dietary Excess." Helen H. Hobbs, prof. of genetics and development, U. of Texas Southwestern Medical Center. McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

**3 p.m. Siteman Cancer Center Basic Science Seminar Series.** David H. Gutmann, prof. of neurology. Eric P. Newman Education Center, Seminar B. 454-7029.

**3:15 p.m. Electrical & Systems Engineering Seminar.** "The Impact of Technology Globalization: Challenges to and Opportunities for National Security." John C. Sommerer, dir., science and technology, Johns Hopkins U. Bryan Hall, Rm. 305. 935-5565.

**4 p.m. Chemistry Seminar.** "The Removal of Heavy Metal Ions by Imprinted Polymers." Anja Mueller, prof. of chemistry, Central Mich. U. McMillen Lab., Rm. 311. 935-6530.

**4 p.m. Vision Science Seminar Series.** "The NAD World: Sirt1, Systemic NAD Biosynthesis, and Their Importance for Metabolism and Aging." Shin-ichiro Imai, assoc. prof. of developmental biology. Maternity Bldg., Rm. 725. 362-3315.

#### Friday, Feb. 20

**9:15 a.m. Pediatric Grand Rounds.** "Nanotechnology for Cancer Diagnosis and Therapy." Samuel A. Wickline, prof. of medicine. Clopton Aud., 4950 Children's Place. 454-6006.

**11 a.m. Energy, Environmental and Chemical Engineering Seminar.** "Atmospheric Brown Clouds and Their Impact on Air Quality and Climate Change." Greg Carmichael, assoc. dean of chemical and biochemical engineering, U. of Iowa. Lopata Hall, Rm. 101. 935-5548.

**Noon. Cell Biology and Physiology Seminar.** "Postsynaptic Plasticity in the Spinal Cord Underlying Central Pain Sensitization." Robert W. Gereau, prof. of anesthesiology, McDonnell Medical Sciences Bldg., Rm. 426. 362-6950.

**Noon. Interdisciplinary Project in the Humanities Lecture Series.** "Passionate Amateurs: Literary Societies and the Common Reader." Miriam Bailin, assoc. prof. of English. Co-sponsored by the Assembly Series and Center for the Humanities. Women's Bldg. Formal Lounge. 935-4200.

**12:30 p.m. Biostatistics Seminar Series.** Min Zhang, asst. prof. of biostatistics, U. of Mich. Shriners Bldg., Rm. 3307, 706 S. Euclid. 362-1565.

**7:30 p.m. Saint Louis Astronomical Society Meeting.** "But Still It Moves — The Life and Times of Galileo." K. Michael Malolepszy, computer specialist. Saint Louis Astronomical Society. McDonnell Hall, Rm. 162. 935-4614.

#### Saturday, Feb. 21

**10 a.m.-2 p.m. Performing Arts Dept. Symposium.** "Hamlet and the Adolescent Mind." Women's Bldg. Formal Lounge. 935-6543.

**11 a.m. MLA Saturday Seminar Series.** "Why Universities Sponsor Presidential Debates." Andrew Rehfeld, assoc. prof. of political science. McDonnell Hall, Goldfarb Aud. 935-6700.

#### Monday, Feb. 23

**Noon. School of Law "Access to Justice" Public Interest Law Speaker Series.** "The Future of Civil Rights: Reflections and Renewal." Goodwin Liu, acting prof. of law, U. of Calif., Berkeley. Anheuser-Busch Hall, Bryan Cave Moot Courtroom. 935-7567.

**Noon. Work, Families and Public Policy Brown Bag Seminar Series.** "The Diffusion of IT in Higher Education: Publishing Productivity of Academic Life Scientists." Anne Winkler, prof. of immunology and rheumatology, U. of Mo.-St. Louis. Seigle Hall, Rm. 348. 935-4918.

**4 p.m. Immunology Research Seminar Series.** "Poxviral Infections of Man and Mouse: Survival Requires the Complement System." John P. Atkinson, prof. of medicine. Farrell Learning & Teaching Center, Connor Aud. 362-2763.

**4 p.m. Sam Fox School Public Lecture Series.** Steinberg Auditorium Rededication Lecture. Fred Tomaselli, artist, and James Cohan, gallery owner. (Reception follows.) Steinberg Aud. 935-9300.

**4 p.m. Siteman Cancer Center Breast Cancer Research Group Seminar Series.** "Recent Declines in Breast Cancer: What and Why?" Christina A. Clarke, research scientist, Northern Calif. Cancer Center. Center for Advanced Medicine, Farrell Conf. Rm. 2. 454-8981.

### How to submit 'University Events'

Submit "University Events" items to Angela Hall of the Record staff via:

**e-mail** — [recordcalendar@wustl.edu](mailto:recordcalendar@wustl.edu)  
**campus mail** — Campus Box 1070  
**fax** — 935-4259

#### Tuesday, Feb. 24

**Noon-5 p.m. Division of Biology & Biological Sciences Annual Postdoc Scientific Symposium.** Co-sponsored by The Office of Post Graduate Affairs, WU Postdoctoral Society and the Vice Chancellor for Research. Eric P. Newman Education Center. To register: [dbbs.wustl.edu/postdoc](mailto:dbbs.wustl.edu/postdoc).

**4 p.m. Center for the Humanities Faculty Fellows' Series.** "Cold War Nostalgia, From the International Spy Museum (DC) to 'Stalin World', Grutas Park, Lithuania." Penny M. Von Eschen, prof. of history and American culture, U. of Mich. Duncker Hall, Rm. 201, Hurst Lounge. 935-5576.

#### Wednesday, Feb. 25

**7:45 a.m.-6:30 p.m. Surgery CME "Invitation Day" and Eugene M. Bricker Visiting Lecture in Surgery.** "Cutting Edge Tactics and Strategies for Surgical Education." Eric P. Newman Education Center and Barnes-Jewish Hospital. For costs and to register: 362-6891.

**4 p.m. Assembly Series.** "A Discussion About Race and Identity." Danforth University Center, Fun Rm. 935-5285.

**4 p.m. Women, Gender and Sexuality Studies Lecture Series.** Global and Transnational Feminisms Lecture Series. "Marital Citizenship and the Threat of Similitude: Reproducing the Taiwanese Nation Through Cross-Strait Marriages." Sara Friedman, assoc. prof. of anthropology, Indiana U. McMillan Cafe. 935-5102.

#### Thursday, Feb. 26

**7:30 a.m.-5 p.m. Surgery CME Course.** "Annual Refresher Course and Update in General Surgery." (Continues 7:30 a.m.-9:30 p.m. Feb. 27, 7:30-11:40 a.m. Feb. 28.) Four Seasons Hotel, Lumiere Place Casino & Hotels, 999 Second St. For costs and to register: 362-6891.

**Noon. Genetics Seminar.** "The Complex Genetic Causes of a Trivial Morphological Difference Between *Drosophila* Species." David Stern, assoc. prof. of ecology & evolutionary biology, Princeton U. McDonnell Medical Sciences Bldg., Rm. 823. 362-2139.

**4 p.m. Chemistry Seminar.** "Atomic-Resolution Studies of Protein Structure and Dynamics by Magic-Angle Spinning Solid-State NMR Spectroscopy." Christopher Jaronec, asst. prof. of chemistry, Ohio State U. McMillen Lab., Rm. 311. 935-6530.

**4 p.m. Vision Science Seminar Series.** "From Man to Mouse and Back to Man: Amyloid-beta Metabolism and its Role in Alzheimer's Disease." Shin-ichiro Imai, assoc. prof. of developmental biology. Maternity Bldg., Rm. 725. 362-3315.

#### Friday, Feb. 27

**All Day. Romance Languages and Literatures Symposium.** "Jewish Spain." Danforth University Center, Rm. 276. 935-5175.

**9:15 a.m. Pediatric Grand Rounds.** Donald Thurston Memorial Lecture. "Mitochondrial Fatty Acid Oxidation in the Era of Expanded Newborn Screening." Arnold W. Strauss, prof. of pediatrics, U. of Cincinnati College of Medicine. Clopton Aud., 4950 Children's Place. 454-6006.

**11 a.m. Energy, Environmental and Chemical Engineering Seminar.** "The Health Hazards and Possible Benefits of Environmental Endotoxin Exposure." Harvey Checkoway, prof. of environmental health, U. of Wash. Lopata Hall, Rm. 101. 935-5548.

#### Saturday, Feb. 28

**10 a.m. Conversations in Biology Speaker Series.** "Darwin, Eugenics and the Self-Direction of Human Evolution: What Can We Learn From the Past?" Rebstock Hall, Rm. 215. 935-6871.

**11 a.m. MLA Saturday Seminar Series.** "The Legal Idea of a University in a Democratic Society." Kent Syverud, dean, School of Law. McDonnell Hall, Goldfarb Aud. 935-6700.

#### Monday, March 2

**10 a.m. Electrical & Systems Engineering Seminar.** "Functional Data Analysis Methods for Actigraphy in Sleep Medicine." William Shannon, assoc. prof. of biostatistics in medicine. Bryan Hall, Rm. 305. 935-5565.

**4 p.m. Energy, Environmental and Chemical Engineering Seminar.** "The Energy Challenge for Membrane Technology in the Water Industry." Tony Fane, prof. of chemical sciences and engineering, U. of New South Wales, Sydney Australia. Cupples II Hall, Rm. 101. 935-5548.

**4 p.m. Immunology Research Seminar Series.** "Regional Regulations of CNS Inflammation by Cytokines and Chemokines." John Russell, prof. of developmental biology, Farrell Learning & Teaching Center, Connor Aud. 362-2763.

**4 p.m. Sam Fox School Public Lecture Series.** "The Future of the Image." W.J.T. Mitchell, prof. of English and art history, U. of Chicago. (Reception follows.) Steinberg Aud. 935-9300.

**5:30 p.m. Cardiac Bioelectricity and Arrhythmia Center Seminar.** "Developmental Aspects of Atrioventricular Node Reentry." George F. Van Hare, prof. of pediatrics. (5 p.m. reception.) Whitaker Hall, Rm. 218. 935-7887.

#### Tuesday, March 3

**Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series.** "Metagenomics: From Corals to Cystic Fibrosis Lungs." Forest Rohwer, assoc. prof. of biology, San Diego State U. Cori Aud., 4565 McKinley Ave. 362-7243.

#### Wednesday, March 4

**11 a.m. Assembly Series.** Compton Science Lecture. "Development of New Nanocrystal Molecules for Biological Sensing and Detecting." Paul Allivisatos, prof. of chemistry and materials science, U. of Calif., Berkeley. Graham Chapel. 935-5285.

#### 2 p.m. NIH/ORWH National Conference.

"Moving Into the Future — New Dimensions and Strategies for Women's Health Research for the National Institutes of Health." (Continues 7 a.m. March 5 and 6.) Sponsored by the Office of the Vice Chancellor for Research. Eric P. Newman Education Center. Registration required: [research.wustl.edu/womenshealth](http://research.wustl.edu/womenshealth).

**4 p.m. East Asian Studies Lecture.** "A Confucian Great Awakening: Religious Responses to the Taiping Rebellion in Jiangnan." Tobie Meyer-Fong, assoc. prof. of history, Johns Hopkins U. Duncker Hall, Rm. 201, Hurst Lounge. 935-4448.

**4 p.m. Institute for Public Health Faculty Seminar Series.** "The Changing Face of Big Tobacco and New Public Health Predicaments." Peter Benson, asst. prof. of anthropology. Steinberg Aud. 454-7998.

**5 p.m. Dept. of Music Lecture Series.** "Introduction to the Valveless Horn of the Late Eighteenth and Early Nineteenth Century." R. J. Kelley. Recital Hall, 560 Trinity Ave. 935-5566.

### Music

#### Thursday, Feb. 19

**8 p.m. Jazz at Holmes.** The Mosby Music Group. Ridgley Hall, Holmes Lounge. 862-0874.

#### Thursday, Feb. 26

**8 p.m. Jazz at Holmes.** Sometime Then and Again Quartet. William Lenihan, guitar, and Dave Stone, saxophone. Ridgley Hall, Holmes Lounge. 862-0874.

#### Friday, Feb. 27

**6 p.m. Kemper Presents Concert Series.** Theodore. Kemper Art Museum. 935-4523.

#### Wednesday, March 4

**8 p.m. Senior Voice Recital.** Jay O'Brien. Theater, 560 Trinity Ave. 935-5566.

### On Stage

#### Friday, Feb. 20

**8 p.m. Performing Arts Dept. Presentation.** "Hamlet." (Also 8 p.m. Feb. 21; 2 p.m. Feb. 22.) Cost: \$15, \$10 for students, faculty and staff, A.E. Hotchner Studio Theatre. 935-6543.

**8 p.m. OVATIONS Series.** "Wonderboy." (Also 8 p.m. Feb. 21.) Cost: \$32, \$28 for seniors, faculty and staff, \$20 for students and children. Edison Theatre. 935-6543.



# Historic international justice meeting at WUSTL

By JESSICA MARTIN

At the 1904 World's Fair, the Inter-Parliamentary Union (IPU), an international organization of national parliaments, met at the Hall of International Congresses to issue its appeal for world peace and to adopt a resolution calling for a second Hague Peace Conference.

This resolution, adopted in what is now known as Ridgley Hall, ultimately led to the 1907 Hague Convention Respecting the Laws and Customs of War on Land, one of the most important humanitarian law treaties of the past century.

The IPU also played an instrumental role in the establishment of the Permanent Court of Arbitration in The Hague and would later contribute to the establishment of the United Nations.

Building on this legacy, a distinguished group of international law experts from around the world will gather at the law school April 12-15 to begin work on a Specialized Convention on Crimes Against Humanity as part of the Whitney R. Harris World Law Institute's Crimes Against Humanity Initiative.

Meeting participants will gather at Ridgley Hall to commemorate the link to the historic 1904

meeting.

"The ultimate goal of the Crimes Against Humanity Initiative, like the earlier treaties it builds upon, is the protection of civilians from the ravages of war and the commission of atrocities," said Leila Sadat, J.D., the Henry H. Oberschelp Professor of Law and director of the Harris Institute.

This conference is the first major meeting of the two-year initiative spearheaded by the Harris Institute to draft a multi-lateral treaty condemning and prohibiting crimes against humanity.

The initiative has been funded by a gift from WUSTL alumnus Steven Cash Nickerson.

"The Crimes Against Humanity Initiative is an innovative and important project of the Harris Institute under the dynamic leadership of Leila Sadat," said Kent Syverud, J.D., dean and the Ethan A.H. Shepley University Professor. "I am grateful to Leila and to Cash Nickerson for making this exciting project happen."

The project is directed by a steering committee composed of internationally renowned jurists and chaired by Sadat.

The steering committee's members are: M. Cherif Bassiouni, J.D., professor and president emeritus

of the International Human Rights Law Institute at DePaul University College of Law; Hans Corell, former United Nations undersecretary for legal affairs;

Richard Goldstone, former justice of the South African constitutional court and former chief prosecutor of the International Criminal Tribunals for Rwanda and for the former Yugoslavia; Juan Mendez, J.D., president of the International Center for Transitional Justice and former president of the Inter-American Commission for Human Rights;

William Schabas, LL.D., professor and director of the Irish Centre for Human Rights of the National University of Ireland at Galway; and Christine Van Den Wyngaert, Ph.D., judge for the International Criminal Tribunal for the former Yugoslavia and

recently elected as a judge to the International Criminal Court.

"Crimes against humanity" was one of the three crimes set out in the charter of the International Military Tribunal at Nuremberg, which tried Nazi war criminals in the wake of World War II.

The project is prompted by a number of developments around the world that suggest that the time is propitious for the development of this new international treaty, including the facts that:

- Broad international support is building for the Rome Statute of the International Criminal Court;
- Members of the U.S. Congress have discussed criminal sanctions for crimes against humanity; and
- A considerable body of

jurisprudence has been generated in the last decade by several international criminal tribunals.

In addition to working on a draft of the convention, conference participants will explore the legal, social and enforcement issues surrounding crimes against humanity.

The second meeting of the Crimes Against Humanity Initiative will take place at The Hague in June.

The project will culminate with a global conference, at which the final draft of the multilateral treaty will be discussed and the problem of prevention as well as punishment will be taken up.

Cambridge University Press will publish the papers commissioned by the project, a full draft of the treaty and an accompanying commentary.

## Sports

### Men's basketball earns postseason bid

The No. 2 men's basketball team captured the University Athletic Association (UAA) title and gained an automatic bid to the NCAA Division III tournament with a 71-63 win at Case Western Reserve University Feb. 15.

This marks the ninth conference title in school history for the Bears and 17th NCAA tournament appearance.

Junior Aaron Thompson led the Bears with 19 points and added a season-high six rebounds, a career-best five blocks and four steals. Senior Sean Wallis added 13 points and six assists, while junior Zach Kelly added 12 points and nine rebounds, and senior Tyler Nading had 11 points and 14 rebounds.

The Bears have won 12 straight, and 27 of their past 28 dating back to last season.

Coach Mark Edwards is just two wins shy of 500 for his career, improving to 498-234 (.680) in 28 seasons.

Just three games remain in the regular season for WUSTL (21-1, 11-0 UAA), all home games. The Bears host No. 21 Carnegie Mellon University Friday, Feb. 20, at 8 p.m. and then take on the University of Rochester Sunday, Feb. 22, at 11:30 a.m. The season closes Feb. 28 against the University of Chicago.

### Women's basketball has grip on first place

The No. 13 women's basketball team won its seventh straight game to move into sole possession of first place in the University Athletic Association (UAA) standings with a 70-40 win at Case Western Reserve University Feb. 15.

With three games remaining, the Bears have a one-game lead over the University of Rochester. WUSTL and Rochester will square off at 1:30 p.m. Sunday, Feb. 22, at the WU Field House.

In the win at Case Western, the Bears held the Spartans to 17.4 percent shooting in the second half. Senior Halsey Ward scored 16 points, while freshman Dani Hoover added 10 points and a career-high four assists in a career-best 21 minutes of action.

The Bears shot a season-high 53.7 percent from the field in a 91-55 victory at Emory University Feb. 13. Junior Zoe Unruh led WUSTL with 17 points, while junior Janice Evans added 15 points. Sophomore Kathryn Berger picked up her second double-double of the season and third of her career with 15 points and a career-high

12 rebounds.

WUSTL (18-4, 10-1 UAA) begins a three-game home stand against Carnegie Mellon University on Friday, Feb. 20, at 6 p.m.

### Women's tennis picks up win

The No. 16 women's tennis team opened its 2009 spring campaign with a 5-4 win at DePauw University Feb. 15.

It was a key regional victory, as the Bears entered the match ranked two spots behind DePauw in the central region.

Sophomores Jaclyn Bild and Elise Sambol, who were 8-6 victors at No. 3 doubles, also picked up wins in singles action.

The Bears will be back in action March 8 at Occidental College.

### Men's tennis falls in season opener

The top-ranked men's tennis team dropped a 6-3 decision to Division II Drury University Feb. 14 in Springfield, Mo.

After jumping out to a 2-1 lead after doubles play, Drury won five of six singles matches in straight sets. Junior John Watts earned the lone win for WUSTL at No. 1 singles — his 72nd career victory.

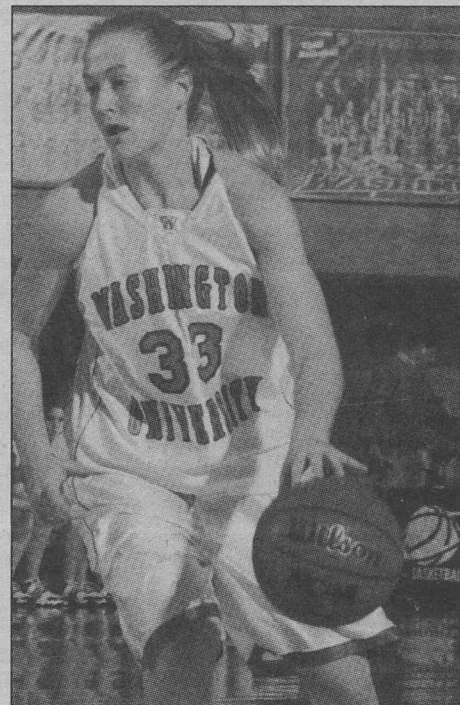
WUSTL takes on No. 12 Trinity University Friday, Feb. 20, in the first round of the National Indoor Championships in St. Peter, Minn.

### Swimming competes in UAA championships

The men's swimming and diving team garnered a third-place finish, while the women came in sixth at the University Athletic Association (UAA) championships Feb. 11-14 in Chicago.

Freshman Karina Stridh was named UAA Women's Rookie of the Year after winning the 50-yard and 100-yard freestyle titles. Stridh set NCAA Division III championship automatic qualifying times and WUSTL and UAA records in the finals of both races. She won the 50-free with a time of 23.38 and the 100-free in 50.94.

The WUSTL men swept the three freestyle relay races. Senior Kevin Leckey, junior Dan Arteaga, senior Kyle Ota and sophomore David Chao won the 200-free relay; freshman Chris Valach, junior Alex Beyer, Chao and Leckey made up the first-place



Senior Halsey Ward and her teammates have a one-game league lead with three games to play.

800-free relay team; and Leckey, freshman Jordan Branham, Arteaga and Chao closed the meet with a win in the 400-free relay.

The Bears have a final opportunity to have student-athletes qualifying for the NCAA championships this weekend, Feb. 20 and 21, at the Midwest Invitational in Chicago.

### Indoor track at Monmouth Invitational

The women's indoor track and field team was second, and the men finished third at the Monmouth College Fighting Scot Invitational Feb. 14 in Monmouth, Ill.

Senior Danielle Wadlington and freshman Katie Hered each met an NCAA Division III provisional qualifying standard at the meet. Wadlington was the runner-up in the 55-meter hurdles with a time of 8.44, which was a new season-best mark and just 0.04 shy of the school record. Hered placed third in the pole vault, matching her season-best height of 3.45 meters.

The women's and men's teams each had a pair of first-place finishes at the meet. Senior Aubrey Edwards won the weight throw (14.93 meters), and freshman Erica Jackey came in first in the 3,000-meter run (10:39.48) on the women's side.

For the men, sophomore Dave Spandorfer came in first in the 3,000 (8:42.25), and sophomore Ben Harmon won the long jump (6.71 meters).

Both teams return to action Feb. 21 at the Wartburg Invitational in Waverly, Iowa.

## Bernheimer to speak for Writing Program

By CYNTHIA GEORGES

Fiction writer Kate Bernheimer will read from her work at 8 p.m. Feb. 26 in Duncker Hall, Room 201, Hurst Lounge for the Writing Program in Arts & Sciences' spring Reading Series.

She is the author of a trilogy of novels: "The Complete Tales of Ketzia Gold" (2001); "The Complete Tales of Merry Gold" (2006) and the forthcoming "The Complete Tales of Lucy Gold," based on themes found in German, Russian and Yiddish folklore.

She also is the editor of two essay collections: "Mirror, Mirror on the Wall: Women Writers Explore Their Favorite Fairy Tales" (1998) and "Brothers & Beasts: An Anthology of Men on Fairy Tales" (2007).

Bernheimer is editor and founder of the journal Fairy Tale Review, the leading literary journal devoted to fairy tales as an art form.

Kathryn Davis, the Hurst senior writer in residence in the Department of English in Arts & Sciences, praised "The Complete Tales of Ketzia Gold."

"Kate Bernheimer interweaves hypnotic imagery and everyday life, moving back and forth through time, piecing together the fragments of memory and

imagination with an obsessive lyricism that recalls the poetic fictions of Carol Maso," Davis said.

"Bernheimer's story is a rich tapestry, patterned with childhood longings and the luxuriant complexity of womanhood," Davis said.

In 2008, Bernheimer wrote her first children's book, "The Girl in the Castle Inside the Museum," recently named one of the Best Books of 2008 by Publishers Weekly.

Bernheimer is an assistant professor in the MFA Program of Creative Writing at the University of Alabama in Tuscaloosa.

When asked why she writes about, studies and supports the fairy tale genre, Bernheimer said, "I consider fairy tales to be of tantamount literary importance — perhaps the single most influential body of work on hundreds of years of literature."

"I also think fairy tales contain the secret of the world, which is that it is violent, insane, beautiful, transient, fated and almost gone and so ever-after," Bernheimer said.

Bernheimer's talk is free and open to the public. A reception and book signing will follow.

For more information, call 935-7130 or e-mail David Schuman at dschuman@wustl.edu.

### Saturday, Feb. 28

11 a.m. ovations for young people series. The Ahn Trio. Cost: \$8. Edison Theatre. 935-6543.

8 p.m. OVATIONS Series. Ahn Trio. "Lullabye For My Favorite Insomniac." Cost: \$32, \$28 for seniors, faculty and staff, \$20 for students and children. Edison Theatre. 935-6543.

## Sports

### Friday, Feb. 20

6 p.m. Women's Basketball vs. Carnegie Mellon U. Athletic Complex. 935-4705.

8 p.m. Men's Basketball vs. Carnegie Mellon U. Athletic Complex. 935-4705.

### Sunday, Feb. 22

11:30 a.m. Men's Basketball vs. U. of Rochester. Athletic Complex. 935-4705.

1:30 p.m. Women's Basketball vs. U. of Rochester. Athletic Complex. 935-4705.

### Saturday, Feb. 28

Noon. Baseball vs. Coe College. Athletic Complex. 935-4705.

1 p.m. Women's Basketball vs. U. of Chicago. Athletic Complex. 935-4705.

3 p.m. Men's Basketball vs. U. of Chicago. Athletic Complex. 935-4705.

### Sunday, March 1

12:30 p.m. Baseball vs. Coe College. Athletic Complex. 935-4705.

3:30 p.m. Baseball vs. Fontbonne U. Athletic Complex. 935-4705.



## Center for the Humanities announces fourth class of faculty fellows

The Center for the Humanities in Arts & Sciences has announced its spring 2010 Faculty Fellows.

The recipients are Asad Ahmed, Ph.D., assistant professor of Arabic with a joint appointment in the Department of Asian & Near Eastern Languages & Literatures and in the Jewish, Islamic and Near Eastern Studies Program; Angela Miller, Ph.D., professor of art history and archaeology; and Robert W. Sussman, Ph.D., professor of anthropology, all in Arts & Sciences.

Fellows spend a semester in residence with the center, researching a new book project while performing various duties, including the delivery of one formal, public lecture about their work.

Ahmed's book is tentatively titled "Empire and Periphery: A Social Network Analysis of the Hijazi Elite in the Early Islamic Period." It aims to reconstruct the sociopolitical history of the elite families of the Hijaz, a province in the Arabian Peninsula, for the entirety of the first and part of the second Islamic dynasty (661-833).

The work consists of two parts. The first explores the nature of the sources, supplies a basic demographical and geographical mapping of the area and gathers the available fragmentary information on the economic and administrative history of the region.

The second part draws on quantitative and social network analysis to explore the social structure and sociopolitical history of the most prominent elite families. Taken together, these two divisions not only constitute a detailed provincial history but also bring to light the ways in

which the central authorities managed a vast empire in the early history of Islam.

Miller's project, "Homeless in America: Alternative Modernisms, 1900-1940," centers on the sense of homelessness or metaphysical dispossession that paradoxically drove the native search for roots in American modernism of the early 20th century. The work situates "home-grown" or native modernism in the United States in relation to a longer intellectual history that reaches from 19th-century literature to ideas about nation, place, space and identity in the arts of the early 20th century.

Miller will map the expressive, iconographic and ideological dimensions of native modernism in relation to the very different impulse behind "cosmopolitan" or nomadic modernism. Native and cosmopolitan modernisms turn on strikingly different philosophical, aesthetic and cultural positions, yet both respond to a condition of spiritual displacement that would come to be a defining feature of American culture in the eyes of American and European intellectuals and, more broadly, a central element of modernity itself.

Sussman's project entails the research, writing and publication of "Essays on Race and Culture." The book will contain two separate but interrelated essays: "The History of Race and Racism in Western Science and Society" and "The Importance of the Concept of Culture in Anthropology, Science and Society."



Ahmed



Miller



Sussman

In these essays, Sussman will trace the history of two views of race — polygenic vs. monogenic — from the Spanish Inquisition of the 15th century to Charles Darwin's time to the early 20th century.

He will show how these two views were instrumental in the development of social Darwinism, eugenics and Nazism on the one hand while contributing to the concept of culture on the other. He then will discuss how modern biology provides evidence that human races do not exist biologically and, therefore, that modern concepts of race have been historically and culturally determined.

Now in its fourth year, the faculty fellowship program is designed to provide both physical and intellectual environments for innovative, interdisciplinary scholarship and teaching.

The fellowships are open to all tenured and tenure-track faculty in Arts & Sciences. Winners are selected by a panel of University faculty and outside reviewers.

Applications for the 2010-11 academic year will be accepted from July 1 to Oct. 1, with announcement of the winners in December.

For more information, go to [cenhum.artsci.wustl.edu](http://cenhum.artsci.wustl.edu) or contact Jian Leng, associate director of the center, at 935-4008 or [cenhum@artsci.wustl.edu](mailto:cenhum@artsci.wustl.edu).

it possible to develop better therapies for this type."

Ellis said more than 20 drugs are available to treat breast cancer. The researchers are now investigating how each tumor type responds to these drugs to help determine the best treatment for each.

Their 50-gene set can be assayed in preserved tumor samples left over from standard diagnostic procedures, so the group plans to study tumor samples from breast cancer cases going back a decade or more.

Since the patients in these cases have already been treated, the researchers can relatively

quickly discover how well various therapies worked for each breast cancer type.

The genomic test technology is patented and will be distributed through University Genomics, a company co-owned by WUSTL, the University of Utah and the University of North Carolina. This year, University Genomics is working with Associated Regional and University Pathologists Inc., a reference laboratory at the University of Utah, to provide a location where the 50-gene test will be available.

Ellis is one of the inventors of the test and holds patents for the technology described.

human footprint is contributing to a mass extinction of species at a scale comparable to that of the end of the Cretaceous period, when the dinosaurs disappeared. And the list goes on.

Goodenough said taking a religious perspective of the earth (and of the science that elucidates our complex relationship with the earth) might prompt us to take better care of it.

Although Goodenough and her colleagues were viewed as "a bunch of hippies" 10-15 years ago for their take on the potential for synergy between religion and science, this attitude is changing.

"In more and more mainstream religions, you're seeing an increased emphasis on the earth and its creatures as sacred," she said.

This paradigm shift is due, at least in part, to a growing awareness that the old stories might not be sufficient to frame an ethic that alters the environment's current trajectory.

She said the new story offers a basis for understanding what a sustainable trajectory might look like.

## New master's degree in engineering offered

By TONY FITZPATRICK

The Department of Energy, Environmental & Chemical Engineering has launched a new master of engineering program that not only expands on the undergraduate program but also includes development of leadership and entrepreneurial attributes.

The one-year program will train students to work toward professional pursuits in areas such as advanced energy technologies, environmental engineering, environmental health, environmental nanotechnology and sustainable international development.

"To get the master of engineering degree in energy, environmental and chemical engineering, students can choose a pathway of specialization in specific topical areas," said Pratim Biswas, Ph.D., the Stifel & Quinette Jens Professor of Environmental Engineering Science and chair of the department. "We also will provide training in leadership skills, teamwork and field/international experience."

Discussions also are under

way with the Olin Business School to explore collaborative opportunities for course offerings.

Biswas said the degree requires 30 credits and can be completed by students who enroll on a full-time basis in one year. Students can enroll part-time, but this will extend their length of study. A summer practicum worth six credits is an option.

An external advisory board consisting of individuals from outside industry will advise the faculty and help the students enrolled in the program explore internship opportunities.

The new program already is drawing attention of several applicants.

Students who have completed a bachelor's degree in engineering (any discipline), physical sciences or life sciences are eligible to apply, and applicants can apply online.

The deadline is June 1. For more information about the program or application process, contact Rose Baxter at 935-6070 or visit [eec.wustl.edu/about/masterofengineering.asp](http://eec.wustl.edu/about/masterofengineering.asp).

## Government and public policy job fair Feb. 19

Representatives from regional and national government and public policy agencies will be on campus Thursday, Feb. 19, for "Making the Difference Day: Careers in Government and Public Policy."

The event is part of the "Making the Difference" campaign to promote careers in federal government sponsored by the Gephardt Institute for Public Service and the Career Center.

The day includes lunch with employers at noon in the Danforth University Center (DUC), Room 248; 20-minute mock interviews at 1:30 p.m. in

the Career Center and a panel discussion on internships at 3 p.m. in the DUC, Room 233.

Participating agencies represent a wide range of the government and public policy sector.

Among those attending are the Peace Corps, the city of St. Louis, U.S. Department of Labor, U.S. Marine Corps, U.S. Small Business Administration and representatives from the offices of Sen. Claire McCaskill and U.S. Rep. Russ Carnahan.

Students must R.S.V.P. in advance for events. Visit [gephardtinstitute.wustl.edu](http://gephardtinstitute.wustl.edu) for more information.

## Treatment

More than 20 drugs treat breast cancer

— from Page 1

based therapy. They showed that among the poor-prognosis tumor types, basal-like breast cancer was the most sensitive to the chemotherapy and luminal B the least.

"Luminal B tumors are a very poor prognosis group, and none of the current conventional therapies are particularly effective against it," Ellis said. "The ability to identify luminal B tumors accurately makes

## Sacred

The synergy between science and religion

— from Page 1

The first activity is interpretation of the narratives. Goodenough likened this process to "what the preacher says on Sunday or how Talmudic scholars revisit ancient texts," she said.

"Scientific inquiry is the primary tool for deriving the narrative," Goodenough said, "but the interpretive mode, in this schema, has to do with how the religious person interprets this narrative — theistically, atheistically and so forth."

The second activity is spiritual practice, which Goodenough defined as one's spiritual response to these stories.

This reaction includes "awe, wonder, humility and gratitude ... that about which we sing and pray," she said.

Religious naturalists exhibit such reverence toward the earth, existence and to what Good-

enough referred to as "the epic of evolution," a scientific worldview of the origins and evolution of the universe, earth and life.

The third activity, ethics, was the basis for Goodenough's presentation at the AAAS meeting. In religious naturalism, a scientific understanding of humanity's impact on the Earth combined with a religious viewpoint of nature gives rise to ecomorality, a planetary ethic that prioritizes stewardship of the environment.

If the cosmological narrative of religious naturalism is one based on science, then the story has taken a scary twist, Goodenough said.

Scientific evidence suggests that humanity is on a dangerous trajectory. Human activities are very likely the primary driver of global warming; experts predict that accumulation of greenhouse gases will lead to climbing temperatures, rising sea levels and shifting weather patterns.

Degradation of ecosystems is increasing human susceptibility to natural disasters such as hurricanes, tsunamis, pest-outbreaks and disease. The expanding

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## Notables

### Of note

**John C. Aerni**, a graduate student in history in Arts & Sciences, has received a one-year Fulbright-Hays grant from the U.S. Department of Education for doctoral research in Lesotho. His work focuses on youth and nationalism in the 1950s and '60s during the period around independence, relying on oral and documentary sources. Aerni, who is a visiting research fellow in the Institute of Southern African Studies at the National University of Lesotho during the 2008-09 academic year, will be in Lesotho until June. ...

**Anders E. Carlsson**, Ph.D., professor of physics in Arts & Sciences, has received a four-year, \$1,026,560 grant from the National Institutes of Health for research titled "Control of Actin Assembly and Cell Migration by Actin-Regulating Proteins." ...

**Eric Choi**, M.D., associate professor of surgery, has received a two-year, \$275,000 grant from the National Institutes of Health for research titled "A Novel Approach to Prevent Arteriovenous Access Failure in Hemodialysis Patients." ...

**J. Perren Cobb**, M.D., professor of surgery, has received a three-year, \$200,000 grant from the National Institutes of Health for research titled "Plasticity of the Systemic Inflammatory Response." ...

**Steven Hause**, Ph.D., senior scholar in the humanities in Arts & Sciences, has received the Innovative Entrepreneurship Education Course Award from the U.S. Association of Small Business and Entrepreneurship for his course "Economic History and Entrepreneurialism in Modern Western Civilization." Hause developed the course curriculum with a grant from the WUSTL Skandalaris

Center for Entrepreneurial Studies with funding provided by the Ewing Marion Kauffman Foundation. ...

**Daniel Moran**, Ph.D., assistant professor of biomedical engineering, and **Eric Leuthardt**, M.D., assistant professor of neurological surgery, have received a five-year, \$1,210,761 subaward from Health Research Inc. for research titled "General Purpose Brain-Computer Interface System." ...

**Will R. Ross**, M.D., associate professor of medicine, associate dean for diversity and director of the Office of Diversity at the School of Medicine, has been elected chair of the Missouri Foundation for Health board of directors for a one-year term. He has been a member of the board since 2004. ...

**Barry P. Sleckman**, M.D., Ph.D., associate professor of pathology and immunology, has received a five-year, \$1,900,000 grant from the National Institute of Allergy and Infectious Diseases for research titled "ATM Function During V(D)J Recombination." ...

**Mark W. Smith**, J.D., assistant vice chancellor and director of the Career Center, has been appointed to serve on the Regional Attorney Disciplinary Committee by the Supreme Court of Missouri. Smith was formerly associate dean of student services at the School of Law. ...

**Frank J. Stadermann**, Ph.D., senior research scientist in physics in Arts & Sciences, has received a three-year, \$368,540 grant from the National Aeronautics and Space Administration for research titled "Atom-Probe Tomographic Studies of Individual Meteoritic Nanodiamonds." ...

**Samuel L. Stanley Jr.**, M.D.,

### Barke named director of Campus Y

By NEIL SCHOENHERR

**T**iffany Barke has been named executive director of the Campus Y on the Danforth Campus.

Previously, she served as the organization's program director since 2001 and had been interim director since November 2008.

Barke is excited about the new opportunity.

"I often tell my YMCA colleagues that I have the best job in the YMCA," she said. "Every day is a new day at the Campus Y, filled with the excitement of our student leaders and their commitment to meet the needs of the Washington University and St. Louis communities."

The Campus Y is a service organization that provides many opportunities for WUSTL students to give back

to the St. Louis community, and the list of volunteer programs grows each year. The facility is located in the lower level of Umrath Hall.

With the Campus Y's 100th anniversary approaching in 2011, Barke has plans to improve offerings. She wants to continue fostering collaborative partnerships with other service groups on campus, such as the Community Service Office and the Gephardt Institute, while also developing new partnerships with other University departments.

"The Campus Y has a wonderful reputation for developing



Barke

ethical student leaders and helping them become engaged citizens," Barke said. "I am proud of our history and plan to continue meeting the needs of the community."

"Washington University has created an environment that supports service, and I find it a privilege to work with more than 100 student leaders and 800 student volunteers in the Campus Y community service programs. I will continue to support our students as they create new programs, volunteer in current programs and grow in their leadership," she said.

Before joining WUSTL in 2001, Barke was an instructor at John A. Logan College in Carterville, Ill. She taught sociology and college success and career planning. She has a master's degree in educational psychology from Southern Illinois University Carbondale.

vice chancellor for research, was named a member of the National Advisory Allergy and Infectious Diseases Council by former U.S. Health and Human Services (HHS) secretary Michael O. Leavitt. Stanley will serve a four-year term on the council, which advises HHS and the National Institutes of Health on matters related to allergic and immunologic diseases, infectious diseases and biodefense research. Stanley also directs the Midwest Regional Center of Excellence for Biodefense and Emerging Infectious Diseases Research, which is headquartered at Washington University. ...

**Radhakrishna Sureshkumar**, Ph.D., professor of energy, environmental and chemical engineering,

has received a \$166,451 subaward from the University of Tennessee through a grant funded by the National Science Foundation for research titled "Novel 3D Nanocomposites for Optical and Solar Applications." ...

**Steven Teitelbaum**, M.D., the Messing Professor of Pathology and Immunology, has been appointed to the Editorial Board of The Journal of Experimental Medicine. ...

**Herbert W. Virgin IV**, M.D., Ph.D., the Edward Mallinckrodt Professor and chair of pathology and immunology and professor of medicine and of molecular microbiology, has joined the editorial team of Current Topics in Microbiology and Immunology. ...

**WUSTL's traditional Indian dance team** took third place Jan. 31 in the eighth annual intercollegiate Rass dance competition, Dandia Dhamaka, at the University of Michigan. Ten teams attended the event, which drew more than 2,000 spectators. ...

**Ernst Zinner**, Ph.D., research professor of physics and of earth and planetary sciences, both in

Arts & Sciences, has received a three-year, \$1,921,500 grant from the National Aeronautics and Space Administration for research titled "Laboratory Studies of the Isotopic Compositions of Presolar Dust Grains." ...

### In print

**Robert McCarter**, the Ruth and Norman Moore Professor of Architecture and chair of the Architecture Graduate Program, had an article on "The Villa Mairea of Alvar Aalto" included in the commemorative 50th issue of the magazine *Hise (Houses)*, which was published in January. He also wrote the introductory essay, "Common Sense: Towards an Architecture Both Poetic and Practical," in "Brian Healy: Common Places" (ORO Editions 2008) and a book review of "Aldo van Eyck: Writings," which appeared in the December issue of the *Journal of the Society of Architectural Historians*.

## Obituaries

### McFarland, professor emeritus of physical education, 84

**W**ayne "Packy" McFarland, Ph.D., professor emeritus of physical education, died Jan. 18, 2009, at Park Village Health Care Center in Dover, Ohio, following a brief illness. He was 84.

McFarland joined Washington University in 1961 as assistant professor of education in Arts & Sciences. He became associate professor of physical education in 1964 and professor of physical education in 1966. From 1964-68, he also served as WUSTL's director of athletics.

Beginning in 1969, McFarland served as chair of education for one year and then became chair of physical education in 1970. He was named professor emeritus in 1990.

McFarland was born in Newcomerstown, Ohio, in 1924. After graduating from Newcomerstown

High School in 1942, McFarland was part of Gen. George Patton's European Theatre Army during the Battle of the Bulge. At the time of his discharge, he had earned the rank of lieutenant.

In 1949, McFarland earned a bachelor's degree from Ohio Wesleyan University. He went on to earn a master's degree and doctoral degree from Columbia University in 1954 and 1959, respectively.

He served as principal of Dependents School from 1952-57 at the U.S. 3rd Air Force Base in England. He then accepted a teaching position at Scarsdale Elementary School and later became an elementary school principal in Caldwell, N.J.

Before joining WUSTL, McFarland served on the faculty of Rutgers University and New York

University.

McFarland was a sports enthusiast and an active participant in the Rotary Club, the Benevolent & Protective Order of The Elks, and the American Legion and V.F.W. He served as mayor of Newcomerstown for six years during the 1990s.

McFarland is survived by his wife, Natalie; sons Jeffrey W., William C. and Samuel A.; daughters-in-law Sofia and Lori; grandchildren Saga and Axel, sister-in-law Jean McFarland Dessecker; and his former wife, Marjorie C. McFarland.

A service was held in Dover Jan. 26.

Memorial contributions may be made to Newcomerstown Rotary Club, P.O. Box 609, Newcomerstown, Ohio, 43832 or to the charity of the donor's choice.

### Glynn, founding father of the Newman Center, 94

**M**onsignor Gerard Glynn, considered the founding father of the Newman Center at Washington University — also known as the Catholic Student Center — died Feb. 4, 2009. He was 94.

Glynn was first assigned to the Newman Apostolate at Washington University in 1950, when it was known as the Newman Club and had been meeting for two years in the basement of Our Lady of Lourdes church.

Under his leadership, funds were raised to acquire a building on Skinker Boulevard, which was the original Newman Center.

Glynn continued to grow the ministry and, in 1962, was able to purchase the Catholic Student Center's current location on Forsyth Boulevard and construct a chapel addition on the south side of the original building.

This was the first of several conversions of residences for institutional use that would occur on Forsyth directly across from

the University campus.

Over the years, Glynn garnered support from many St. Louis-area Catholics to secure the future of the Catholic Student Center, creating an endowment for religious education for students of Washington University.

A funeral was held Feb. 9 at the Cathedral Basilica of St. Louis. Memorial contributions may be made to the Catholic Student Center, 6352 Forsyth, St. Louis, Mo., 63105.

## Campus Watch

The following incidents were reported to University Police Feb. 3-16. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This information is provided as a public service to promote safety awareness and is available on the University Police Web site at [police.wustl.edu](http://police.wustl.edu).

#### Feb. 6

9:01 a.m. — A facilities employee reported that a cell phone was stolen from a desk overnight.

#### Feb. 7

3:37 p.m. — A person reported that a red iPod was stolen while it was being charged in the Mallinckrodt Student Center.

#### Feb. 8

10:54 p.m. — A student reported that her pink laptop had been stolen from her book bag while it was left unattended at the Bear's Den in the Wohl Center.

#### Feb. 9

7:42 a.m. — A radio/charger was reported stolen from the Earth & Planetary Sciences building.

#### Feb. 10

8:10 a.m. — A jacket and ID card were reported stolen

while left unattended on Shepley Drive.

10:03 a.m. — A person reported license plate tabs had been stolen from her car while it was parked outside of the Mildred Lane Kemper Art Museum.

#### Feb. 13

4:47 p.m. — A vehicle was stolen from Millbrook Garage.

#### Feb. 16

2:27 p.m. — A person reported that his wallet had been stolen in Mallinckrodt Student Center.

*Additionally, University police responded to six accidental injuries, five automobile accidents, four sick cases, two false fire alarms, two reports of assault, one drug offense, one lost article, one parking violation, one report of fraud, one report of property damage and one report of trespassing.*



## Washington People

**S**t. Louis is a city of confluences: old and new, north and south, the Mississippi and Missouri rivers. Standing atop ancient Cahokia Mounds, one can see Eero Saarinen's gleaming Gateway Arch, arguably the most recognizable work of modern architecture in the United States.

For Peter MacKeith, that view proved irresistible.

It was 1999, and MacKeith had spent the last decade abroad, living and working in Helsinki, Finland, and writing frequently about contemporary Finnish architecture. But MacKeith was growing restless, and, though he'd never before visited St. Louis, the opportunity to serve as assistant dean and director of graduate admissions for Washington University's School of Architecture was a potential turning point. A visit to Monk's Mound, the largest of Cahokia's earthen structures, settled the matter.

"It struck me that the best place from which to comprehend the United States might be this central location, across which so much flows and which draws together so many things," MacKeith says. "It



**Peter MacKeith (right), associate dean of the Sam Fox School of Design & Visual Arts and associate professor of architecture, critiques a work by student Xiao Feng. "Architecture is not just a shallow representation of eclectically chosen histories, nor is it simply an attempt to 'build theory,'" MacKeith says. Rather, architecture "has its own substance and should invest itself in material sensibilities," he says.**

By LIAM OTTEN

# Confluences

MacKeith connects Finnish, American architectural cultures

seemed to make sense to be here — at this place, on this continent, working within a significant University that was clearly filled with energy and ambition."

Now things have come full circle for MacKeith, associate dean of the Sam Fox School of Design & Visual Arts and associate professor of architecture. This spring, as St. Louis coordinator for the exhibition "Eero Saarinen: Shaping the Future" — currently on view at the Mildred Lane Kemper Art Museum — MacKeith has focused renewed attention on the Finnish-American architect whose monument to westward expansion has so shaped the region's identity.

"Peter has spent years working behind the scenes to bring this exhibition to campus," says Carmon Colangelo, dean of the Sam Fox School of Design & Visual Arts and the E. Desmond Lee Professor for Community Collaboration.

"In many ways, it's the perfect encapsulation of the school's mission, combining architecture and design with scholarship and museum studies. And it would not have been possible without him," Colangelo said.

### 'The right message'

MacKeith's childhood was largely defined by travel. His father taught at private schools in New Jersey, Houston — where MacKeith was born — Seattle and Washington, D.C., before joining the U.S. Food and Drug Administration as a regulator for Asian and Middle Eastern goods. MacKeith says that at the family home in Arlington, Va., "we still keep a very fine world map with pins in the locations where everyone has been."

Though he drew constantly from an early age, MacKeith's architectural interests were matched by equally strong fascinations with literature, history and political science. He also was a talented soccer player and was recruited by several colleges before enrolling at the University of Virginia. He served as captain and led

the team to its first NCAA tournament, in 1979, while also pursuing degrees in literature and international relations.

Still, in the back of his mind, there remained architecture. And so, as a fourth-year student, MacKeith took his first design studio — taught, ironically, by Robert Vickery, a Washington University alumnus who had helped design Edison Theatre.

"Vickery presented architecture as a field of cultural inquiry," MacKeith says. "It was politics and history and economics as much as materials and structural techniques." He was particularly struck by Alvar Aalto's work, which seemed to combine central architectural issues — ideas about place and light and movement — with a deep material sensitivity.

"It was precisely the right message at precisely the right time," MacKeith says.

### Material sensibilities

MacKeith spent the next year working in Vickery's office (and serving as assistant soccer coach) and then entered the Yale School of Architecture.

After earning a master's degree in 1985, he remained at Yale as a design critic and residential college dean and to complete the editing (with David Thompson) of *Perspecta 24: The Yale Architectural Journal*. Published by Rizzoli International in 1988, the volume featured a who's who of contemporary architects and theorists — including Fumihiko Maki, Roland Barthes and Mario Botta — and sought to navigate between the postmodern and structuralist camps.

"Architecture is not just a shallow representation of eclectically chosen histories, nor is it simply an attempt to 'build theory,'" MacKeith says.

Rather, architecture, MacKeith says, "has its own substance and should invest itself in material sensibilities" — an approach perhaps best exemplified by the refined pragmatism of Aalto and other Finnish architects.

In 1989, MacKeith won a Fulbright Fellowship to study Aalto's church designs and arrived in Helsinki with the start of the new year. There, he began lecturing at the Helsinki University of Technology (TKK is the Finnish acronym) and later took a job with his Fulbright adviser, the influential architect Juhani Pallasmaa, with whom he would design the House Siltavuori and the 1991 Venice

Biennale exhibition for Finland.

Still, "why you go to a place is one thing," MacKeith muses. "Why you choose to stay depends upon something deeper."

For MacKeith, that something was the birth of his daughter, Ada, in 1993. Yet, the Finnish economy was faltering, and, though Ada's mother was a citizen, MacKeith was "a foreigner with a labor permit," as he dryly remembers.

To make ends meet, he commuted between teaching appointments at TKK and the University of Virginia. He also began writing articles and reviews for what would become a long list of periodicals, from *Architecture and Architectural Record* to *Korean Architects' Review*, Italy's *Casa Bella* and Australia's *Monument*.

The international teeter-totter came to rest in 1994, when Pallasmaa — now dean of architecture at TKK — tapped MacKeith to run its new International Masters Program.

He also continued writing criticism, traveling to Oslo, Copenhagen, Stockholm and other Nordic and Scandinavian environs.

In 1996, while giving tours during an Aalto symposium, he was recruited by Peter Reed, a curator for the Museum of Modern Art (MOMA) in New York, to produce analytical drawings for MOMA's 1998 Aalto retrospective.

### Accelerating shifts

MacKeith arrived at Washington University just as architecture was beginning the process — with the School of Art and the Kemper Art Museum — of forming the larger Sam Fox School.

This involved the reorganization of programs, personnel and facilities as well as the construction of two new buildings, which opened in 2006. (Ironically, their architect was Maki, who had contributed to MacKeith's *Perspecta 24*.)

"The last nine years can only be characterized as a constant state of transition," says MacKeith, who became associate dean of the Sam Fox School in 2004. "My charge, as I understood it, was to assist in accelerating those shifts, and to intensify and expand the graduate program as well as the reputation of the school through publications and communications with the architectural profession."

Thanks in large part to those efforts, the Graduate School of Architecture & Urban Design has doubled in size, from 110 students in 1999 to 220 in 2008, while its national reputation has steadily risen.

Last fall, it was ranked sixth by DesignIntelligence, which polls hundreds of architectural executives.

MacKeith also currently oversees the Whitaker Foundation Learning Lab, a new media center, and helped launch studios in Copenhagen and Helsinki, where he maintains strong ties, returning every five or six weeks.

In 2005, MacKeith published "The Dissolving Corporation: Contemporary Architecture and Corporate Identity in Finland" and also reunited with Pallasmaa to edit the collection "Encounters: Architectural Essays," short-listed for the 2006 Royal Institute of British Architects' International Book Award.

Last spring, he won a national Creative Achievement Award from the Association of Collegiate Schools of Architecture for his interdisciplinary studio "Lighthouses: Adventures on the Mississippi."

MacKeith's involvement with "Eero Saarinen: Shaping the Future" dates back to 2004, when he brought Jukka Valtasaari, Finnish ambassador to the United States and honorary chair of the organizing committee, to tour the Kemper Art Museum, then still under construction.

"We had to demonstrate that we had a museum building of real quality," he says, "one that would suit the exhibition's specifications."

The lobbying proved successful, and MacKeith began recruiting a host of local co-sponsors. With Eric Mumford, associate professor of architecture, he also curated an attendant exhibition, "On the Riverfront: St. Louis and the Gateway Arch," and organized an international symposium of the same title.

"We wanted to highlight the civic nature of the Arch as well as the broad regional vision that brought it into being," MacKeith says. At the same time, the confluence of Finnish and American architectural cultures, as embodied by the Arch, "does represent something of a coming home."

"This is quite potent personally," he says. "But I think it also reinforces our sense of community — between the city and the University as well as between these two nations."

### Peter MacKeith

**Education:** B.A., literature and international relations, 1981, University of Virginia; M.Arch., 1985, Yale School of Architecture

**Family:** daughter, Ada, 16

**Selected publications:** *Perspecta 24: The Yale Architectural Journal* (1988); "The Finland Pavilions: Finland at the Universal Expositions 1900-1992" (1992); "The Dissolving Corporation: Contemporary Architecture and Corporate Identity in Finland" (2005); "Encounters: Architectural Essays" (2005); and "Archipelago: Essays on Architecture" (2006)

**Selected grants and awards:** Fulbright Fellowship, 1990; Finnish Cultural Foundation, 1992; Graham Foundation for Advanced Studies in the Fine Arts, 2001, 2008; Finnish Center for Business and Policy Studies (EVA), 2003-04; Creative Achievement Award, Association of Collegiate Schools of Architecture, 2008; I-CARES, Washington University, 2008



Peter MacKeith and his daughter, Ada.